Appl. No. 10/526,326 Amdt. dated October 25, 2007 Amendment under 37 CFR 1.116 Expedited Procedure Examining Group 1643

Amendments to the Claims:

Please amend claims 1 and 36, add new claim 77, and cancel claims 6-16, 26-27, 30, 32-35, 37-42, 46-48 and 50-76. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) An isolated polynucleotide encoding a CGX 2 polypeptide selected from the group consisting of:
 - (a) a CGX 2 polypeptide comprising the amino acid sequence of SEQ ID NO: 12;
- (b) a CGX 2 polypeptide that has at least 95% identity to the amino acid sequence of SEQ ID NO: 12 that has a cell proliferative activity promotes cell proliferation and binds to at least one protein selected from the group consisting of MGC10334 and CENPC1; and
- (c) a CGX 2 polypeptide encoded by a polynucleotide that hybridizes under stringent conditions to a complement of the nucleotide sequence of SEQ ID NO: 11, wherein the polypeptide has a cell proliferative activity promotes cell proliferation and binds to at least one protein selected from the group consisting of MGC10334 and CENPC1, wherein the stringent conditions are hybridization in a high salt buffer comprising 6X SSC, 50 mM Tris-HCl (pH 7.5), 1 mM EDTA, 0.02% PVP, 0.02% Ficoll, 0.02% BSA, and 500 mg/ml denatured salmon sperm DNA at 65°C and the hybridization is followed by washes in 0.2X SSC, 0.01% BSA at 50°C.
 - 2. (Canceled)
 - 3. (Previously Presented) A vector comprising the polynucleotide of claim 1.
 - 4. (Previously Presented) A host cell harboring the polynucleotide of claim 1.

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5. (Withdrawn) A method for producing the polypeptide of claim 1, said method comprising the steps of: (a) culturing the host cell of claim 4; (b) allowing the host cell to express the polypeptide; and (c) collecting the expressed polypeptide.

6-16. (Canceled)

- 17. (Withdrawn) A method of diagnosing colon cancer or a predisposition to developing colon cancer in a subject, comprising determining an expression level of a CGX 2 polynucleotide of claim 1 in a patient derived biological sample, wherein an increase of said level compared to a normal control level of said gene indicates that said subject suffers from or is at risk of developing colon cancer.
- 18. (Withdrawn) The method of claim 17, wherein said increase is at least 10% greater than said normal control level.
- 19. (Withdrawn) The method of claim 17, wherein said method further comprises determining said expression level of a plurality of colon cancer-associated genes.
- 20. (Withdrawn) The method of claim 17, wherein the expression level is determined by any one method select from group consisting of: (a) detecting the mRNA of the colon cancer--associated genes, (b) detecting the protein encoded by the colon cancer--associated genes, and (c) detecting the biological activity of the protein encoded by the colon cancer-associated genes,
- 21. (Withdrawn) The method of claim 17, wherein said expression level is determined by detecting hybridization of a colon cancer-associated gene probe to a gene transcript of said patient-derived biological sample.
- 22. (Withdrawn) The method of claim 21, wherein said hybridization step is carried out on a DNA array.

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- 23. (Withdrawn) The method of claim 17, wherein said biological sample comprises an mucosal cell.
- 24. (Withdrawn) The method of claim 17, wherein said biological sample comprises a tumor cell.
- 25. (Withdrawn) The method of claim 17, wherein said biological sample comprises a colon cancer cell.

26-27. (Canceled)

- 28. (Withdrawn—Currently Amended) A method of screening for a compound for treating or preventing colon cancer, said method comprising the steps of: a) contacting a candidate compound with a cell expressing a CGX 2 polynucleotide of claim 1; and b) selecting a compound that reduces the expression level of the CGX 2 polynucleotide.
- 29. (Withdrawn) The method of claim 28, wherein said test cell comprises a colon cancer cell.
 - 30. (Canceled)
- 31. (Withdrawn—Currently Amended) A method of screening for compound for treating or preventing colon cancer, said method comprising the steps of: a) contacting a candidate compound with a cell into which a vector comprising the transcriptional regulatory region of a CGX 2 polynucleotide of claim 1 and a reporter gene that is expressed under the control of the transcriptional regulatory region has been introduced, b) measuring the activity of said reporter gene; and c) selecting a compound that reduces the expression level of said reporter gene as compared to a control.

32-35. (Canceled)

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36. (Currently Amended) A kit comprising a detection reagent which binds to <u>a</u> CGX 2 <u>polynucleotide of claim 1</u>.

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37-42. (Canceled)

- 43. (Withdrawn—Currently Amended) A method of treating or preventing colon cancer in a subject comprising administering to said subject a pharmaceutically effective amount of a vaccine comprising a polynucleotide of claim 1 encoding a CGX 2 polypeptide or an immunologically active fragment of said polypeptide.
- 44. (Withdrawn) A method for inducing an anti tumor immunity, said method comprising the step of introducing a polynucleotide of claim 1 encoding a CGX 2 polypeptide or a vector comprising the polynucleotide to antigen presenting cells.
- 45. (Withdrawn) The method for inducing an anti tumor immunity of claim 44, wherein the method further comprising the step of administering the antigen presenting cells to a subject.

46-48. (Canceled)

49. (Withdrawn—Currently Amended) A composition for treating or preventing colon cancer, said composition comprising a pharmaceutically effective amount of a polynucleotide of claim 1 encoding a CGX 2 polypeptide or an immunologically active fragment of said polypeptide.

50-76. (Canceled)

77. (New) The isolated polynucleotide of claim 1, wherein the polynucleotide encodes a CGX 2 polypeptide comprising the amino acid sequence of SEQ ID NO: 12.